

Title (en)
WIRELESS SENSOR DEVICE

Title (de)
DRAHTLOSE SENSOREINRICHTUNG

Title (fr)
DISPOSITIF CAPTEUR SANS FIL

Publication
EP 1815448 A1 20070808 (EN)

Application
EP 05809366 A 20051118

Priority
• JP 2005021640 W 20051118
• JP 2004341074 A 20041125

Abstract (en)
[origin: WO2006057322A1] A wireless sensor device of low energy consumption operates over a prolonged period of time for providing a reliable sensor result. The wireless sensor device includes a sensor configured to sense a target object and provide a sensor signal of varying levels indicative of condition of the target object, a signal processing circuit configured to amplify the sensor signal and give an amplified electric analog signal, and a detection circuit configured to receive the amplified analog signal and provide a detection output when the electric analog signal goes beyond a predetermined detection threshold. Also included in the device is a radio transmitter which transmits a radio detection signal in response to the detection output. Further, the device includes a power supply configured to provide an electric power to the signal processing circuit and the radio transmitter; and a power generating element which converts an external energy into the electric power to be accumulated in the power supply. The controller is included to activate the radio transmitter only in response to the detection output, permitting the radio transmitter to generate the radio detection signal. Thus, the radio transmitter can be kept inactivated until receiving the detection output, thereby saving energy to prolong the operating life of the device.

IPC 8 full level
G08B 13/194 (2006.01); **G08C 17/02** (2006.01)

CPC (source: EP KR US)
G08B 13/194 (2013.01 - KR); **G08C 17/00** (2013.01 - KR); **G08C 17/02** (2013.01 - KR); **H04Q 9/00** (2013.01 - EP US); **H05B 47/13** (2020.01 - EP US); **H04Q 2209/40** (2013.01 - EP US); **H04Q 2209/823** (2013.01 - EP US); **H04Q 2209/883** (2013.01 - EP US); **H04Q 2209/886** (2013.01 - EP US); **Y02B 20/40** (2013.01 - EP)

Citation (search report)
See references of WO 2006057322A1

Cited by
WO2020084074A1

Designated contracting state (EPC)
CH DE GB IT LI NL

DOCDB simple family (publication)
WO 2006057322 A1 20060601; CN 100489905 C 20090520; CN 1914652 A 20070214; DE 602005023767 D1 20101104; EP 1815448 A1 20070808; EP 1815448 B1 20100922; HK 1099836 A1 20070824; JP 2006154963 A 20060615; JP 4779342 B2 20110928; KR 100819108 B1 20080403; KR 20070047234 A 20070504; SG 158081 A1 20100129; TW 200627320 A 20060801; TW I300911 B 20080911; US 2007159235 A1 20070712; US 7792553 B2 20100907

DOCDB simple family (application)
JP 2005021640 W 20051118; CN 200580003203 A 20051118; DE 602005023767 T 20051118; EP 05809366 A 20051118; HK 07105625 A 20070529; JP 2004341074 A 20041125; KR 20067015304 A 20060728; SG 2009078031 A 20051118; TW 94141559 A 20051125; US 58635705 A 20051118